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# **ABSTRACT OF THE DISCLOSURE**

This invention relates to a graphite and/or carbon black-containing cathode coating dispersion which is suitable for battery production. The dispersion is water and alkali resistant and also electrically conductive when coated on cathode surfaces. The dispersion is a one pot thermoset water-based system which contains at least two binders which are epoxy ester and styrene acrylic, styrene butadiene or butadiene acrylonitrile. The formulation containing butadiene acrylonitrile is also suitable as acid resistance coating. The dispersion also contains at least one crosslinker such as melamine and or carbodiimide. The crosslinking is accelerated by using acid catalyst in the dispersion.

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